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(54) Title: POLYNUCLEOTIDE ARRAYS AND THEIR USE IN SEQUENCING

(57) Abstract: A device for use in polynucleotide sequencing procedures comprises an array of polynucleotide molecules capable of interrogation and immobilised on a solid surface, wherein the array has a density which allows the molecules to be individually resolved. The molecules on the array comprise a target polynucleotide and a primer sequence, the primer being maintained in spatial relationship to the target, both being linked via a covalent bond. The device may be used in genotyping experiments, in which an array of genomic DNA is prepared to allow multiple sequencing reactions to be performed.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, BIOSIS, CHEM ABS Data

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☒ Patent family members are listed in annex.

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